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spread. All the species, originating in the head-waters, propagated down-stream, and thus arose the overlapping of faunas, and probably the disappearance of many faunæ as peculiar as is that of the Alabama, which contains, besides some distinctive Unios and a singular Goniobasis, two Strepomatid genera, Schizostoma and Tulotoma, with thirty species, none of which were found elsewhere.

ZITTEL'S HANDBUCH DER PALÆONTOLOGIE.<sup>1</sup>—This standard and fresh work on general palæontology is slowly appearing in numbers, the present one beginning the treatment of the Mollusca. One important feature of the present number are the two hundred excellent wood-cuts of fossil Lamellibranchs. The orders, families and leading genera are briefly described and the typical species mentioned. The systematic portion is succeeded by a brief section on the distribution of Lamellibranchs in geological time. It appears that of all fossil mollusks the Lamellibranchs constituted a fourth part in the palæozoic period, in the Jura and chalk periods one-half, and in the Tertiary period a third part.

MARTIN AND MOALE'S HOW TO DISSECT A CHELONIAN.<sup>2</sup>—This little book is the first of a series designed to form a handbook of vertebrate dissections. The directions given are meant for use in connection with lectures, and the reading of a good text-book and some knowledge of human osteology on the part of the dissector is assumed by the author. The species dissected is the red-bellied, slider terrapin (*Pseudemys rugosa*). After stating the zoölogical position of this terrapin in general terms, taken, with slight modifications, from Huxley, the student is then led to examine briefly the general external appearance of the animal, and then clear, succinct, and, we should think, sufficiently full directions how to dissect the creature are given. The method pursued is not comparative, but special; we should look for the introduction of the comparative method in the succeeding parts. No illustrations of the soft parts are given. A frontispiece is devoted to good figures, showing the different parts of the skull. The book is useful, and one which is needed.

PACKARD'S ZOOLOGY, THIRD EDITION.<sup>3</sup>—The changes made in this edition consist mainly in the correction of errors, the results of suggestions and criticisms from naturalists and teachers. Among the changes and additions are references to Ryder's *Symphyla*,

<sup>1</sup>*Handbuch der Palæontologie*. Herausgegeben von KARL A. ZITTEL. I. Band. 2. Abtheilungen. I. Lieferung, mit 200 original-holz-Schnitten. München und Leipzig, 1881. 8vo. Preis Marks 7.

<sup>2</sup>*Handbook of Vertebrate Dissection*. Part I. How to Dissect a Chelonian. By H. NEWELL MARTIN, Professor in the Johns Hopkins University, and WILLIAM A. MOALE, M.D. New York, Macmillan & Co., 1881. 12mo, pp. 94. 75 cts.

<sup>3</sup>*American Science Series*. Zoölogy for High Schools and Colleges. By A. S. PACKARD, Jr. Third edition, revised. New York, Henry Holt & Co., 1881. 12mo, pp. 719. \$3.